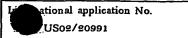
## INTERNATIONAL SEARCH REPORT



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A: CLASSIFICATION OF SUBJECT MATTER					
IPC(7) :G01M 7/00 US CL :73/662, 583, 802					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
U.S. : 73/662, 583, 802, 669, 579, 760, 786, 788					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  Please See Extra Sheet.					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relev	ant passages	Relevant to claim No.	
X	3,664,179 A (DANKO et al.) 23 Ma document.	y 1972 (23.05.1	1972), entire	1-21	
A	US 4,519,053 A (BEDENBENDER et al.) 21 May 1985 1-21 (21.05.1985), entire document.				
A	US 5,425,276 A (GRAM et al.) 20 June 1995 (20.06.1995), entire document.				
A,E	US 6,441,571 B1 (IBUKI et al.) 27 August 2002 (27.08.2002), 1-21 entire document.				
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Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents:  "T" later document published after the international filling date or priority					
"A" document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the application but cited to understand the principle or theory underlying the invention				invention	
"E" earlier document published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step				e claimed invention cannot be red to involve an inventive step	
cit	cument which may throw doubts on priority claim(s) or which is ed to establish the publication date of another citation or other		ment is taken alone	a alaimad in-mutia li	
"O" do	ecial reason (as specified)  cument referring to an oral disclosure, use, exhibition or other  cans	considered to involve an inventive step when the document is combined			
"P" do	nment published prior to the international filing date but later "at" document member of the same patent family				
		Date of mailing of the international search report  06 DEC 2002.			
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT		Authorized officer Sharm 5. Hope			
Washington, D.C. 20231 Facsimile No. (703) 905-9250		RICHARD A. MOLLER Telephone No. (703) 308-6716			
- 400144446 14		I LEIGDHOUG ITU, I/	VUI 308-6716	l i	

B. FIELDS SEARCHED Electronic data bases consulted (Name of data base and where practicable terms used):						
EAST search terms: load, force, mass, actuator, control, reciprocating, cyclical, natural, resonance, resonant, transverse, transversal, lead, lead-lag.						